

S/N 09/382,929

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Paul A. Farrar Examiner: David Graybill
Serial No.: 09/382,929 Group Art Unit: 2822
Filed: August 25, 1999 Docket: 303.603US1
Title: PACKAGING OF ELECTRONIC CHIPS WITH AIR-BRIDGE STRUCTURES

COMMUNICATION CONCERNING RELATED APPLICATION(S)

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicant would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date/Issue Date</u>	<u>Attorney Docket</u>	<u>Title</u>
11492255	July 25, 2006	303.681US3	ELECTRONIC APPARATUS HAVING POLYNORBORNENE FOAM INSULATION
11457105	July 12, 2006	303.603US4	PACKAGING OF ELECTRONIC CHIPS WITH AIR-BRIDGE STRUCTURES
11457110	July 12, 2006	303.603US5	PACKAGING OF ELECTRONIC CHIPS WITH AIR-BRIDGE STRUCTURES
11482308	July 7, 2006	1303.116US2	INTEGRATED CIRCUIT COOLING AND INSULATING DEVICE AND METHOD
11529157	September 28, 2006	1303.128US2	INTEGRATED CIRCUIT COOLING SYSTEM AND METHOD

Continuations and divisionals may be later filed on the cases listed above, or cited to the Examiner in any previous Communication Concerning Related Applications. Applicants request

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that the Examiner review all continuations and divisionals of the above-listed or previously-cited patent applications before allowing the claims of the present patent application.

Respectfully submitted,

PAUL A. FARRAR

By Applicant's Representatives,

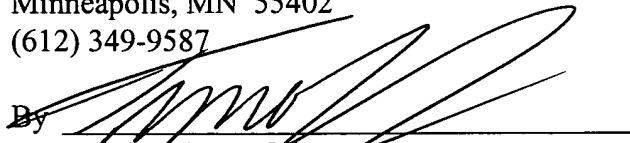
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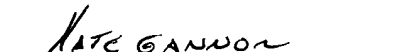
Date 11 Oct '06


By 

Timothy B. Clise

Reg. No. 40,957

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Name


Signature



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Applicant:	Paul A. Farrar	Examiner:	David Graybill
Serial No.:	09/382,929	Group Art Unit:	2822
Filed:	August 25, 1999	Docket:	303.603US1
Title:	PACKAGING OF ELECTRONIC CHIPS WITH AIR-BRIDGE STRUCTURES		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants hereby authorize the Commissioner to charge the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p), to Deposit Account No. 19-0743. Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

10/17/2006 WASFAW1 00000055 190743 09382929
01 FC:1806 180.00 DA

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

PAUL A. FARRAR

By his Representatives,

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Date 11 Oct '06

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Kate Gannon
Name

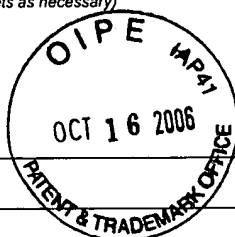
Signature Kate Gannon

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 1 of 3

Complete if Known

Application Number	09/382,929
Filing Date	August 25, 1999
First Named Inventor	Farrar, Paul
Group Art Unit	2822
Examiner Name	Graybill, David

Attorney Docket No: 303.603US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2001/0014512	08/16/2001	Lyons, C. F., et al.	09/17/1999
	US-2002/0094651	07/18/2002	Farrar, P. A.	03/13/2002
	US-20020142590A1	10/03/2002	Pan, W, et al.	03/28/2001
	US-20060118949A1	06/08/2006	Farrar, P. A.	12/02/2004
	US-20060119224A1	06/08/2006	Keolian, R. M., et al.	03/26/2004
	US-4,009,799	03/01/1977	Fathauer, G. H.	11/10/1975
	US-4,599,136	07/08/1986	Araps, Constance J., et al.	10/03/1984
	US-4,705,659	11/10/1987	Bernstein, J. J., et al.	07/07/1986
	US-4,725,562	02/16/1988	El-Kareh, B., et al.	03/27/1986
	US-4,749,621	06/07/1988	Araps, C. J., et al.	12/02/1986
	US-4,992,764	02/12/1991	Ayasli, Y.	02/21/1989
	US-5,084,750	01/28/1992	Adlerstein, M. G.	02/20/1991
	US-5,098,856	03/24/1992	Beyer, K. D., et al.	06/18/1991
	US-5,202,573	04/13/1993	Shirai, K	05/21/1991
	US-5,227,103	07/13/1993	Muschiatti, L. C.	02/27/1992
	US-5,264,375	11/23/1993	Bang, C. A., et al.	04/15/1992
	US-5,311,465	05/10/1994	Mori, T., et al.	02/22/1993
	US-5,470,693	11/28/1995	Sachdev, K., et al.	02/18/1992
	US-5,500,078	03/19/1996	Lee, J. H.	12/23/1994
	US-5,548,159	08/20/1996	Jeng, S.	05/23/1995
	US-5,554,875	09/10/1996	Hartauer, S.	06/07/1995
	US-5,591,676	01/07/1997	Hughes, , et al.	03/16/1995
	US-5,646,526	07/08/1997	Takeda, E., et al.	12/15/1994
	US-5,677,887	10/14/1997	Ishibashi, K., et al.	03/10/1995
	US-5,780,121	07/14/1998	Endo, K.	06/12/1997
	US-5,789,762	08/04/1998	Koyama, J, et al.	09/12/1995
	US-5,801,412	09/01/1998	Tobita, Y	07/23/1996
	US-5,830,923	11/03/1998	Venkataraman, S. K.	04/17/1997
	US-5,869,880	02/09/1999	Grill, A., et al.	03/13/1996
	US-5,883,009	03/16/1999	Villa, F., et al.	07/30/1997
	US-5,923,074	07/13/1999	Jeng, S.	12/03/1996
	US-5,926,732	07/20/1999	Matsuura, Masazumi	09/20/1996
	US-5,949,144	09/07/1999	Delgado, J. A., et al.	05/20/1996
	US-6,028,348	02/22/2000	Hill, D. G.	11/30/1993
	US-6,037,249	03/14/2000	Chiang, C., et al.	12/31/1997
	US-6,040,628	03/21/2000	Chiang, C., et al.	12/19/1996
	US-6,065,131	05/16/2000	Andrews, L. P., et al.	11/26/1997
	US-6,071,600	06/06/2000	Rosenmayer, T.	11/18/1998
	US-6,091,630	07/18/2000	Chan, T. C., et al.	09/10/1999
	US-6,094,715	07/25/2000	Wilkinson, P. A., et al.	06/07/1995

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. † Applicant's unique citation designation number (optional) ‡ Applicant is to place a check mark here if English language Translation is attached

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STATEMENT BY APPLICANT**

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Complete if Known

Application Number	09/382,929
Filing Date	August 25, 1999
First Named Inventor	Farrar, Paul
Group Art Unit	2822
Examiner Name	Graybill, David

Sheet 2 of 3

Attorney Docket No: 303.603US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-6,130,140	10/10/2000	Gonzalez, F.	08/04/1997
	US-6,177,329	01/23/2001	Pang, K.	04/15/1999
	US-6,222,216	04/24/2001	Rao, G. M., et al.	10/21/1997
	US-6,232,140	05/15/2001	Ferrari, P., et al.	12/10/1999
	US-6,265,303	07/01/2001	Lu, J., et al.	11/09/1999
	US-6,268,630	07/31/2001	Schwank, J. R., et al.	03/16/1999
	US-6,268,637	07/31/2001	Gardner, M., et al.	10/22/1998
	US-6,274,920	08/14/2001	Park, M., et al.	11/24/1999
	US-6,303,487	10/16/2001	Kagamihara, M.	12/03/1999
	US-6,313,518	11/06/2001	Ahn, K., et al.	03/02/2000
	US-6,323,125	11/27/2001	Soo, C., et al.	03/29/1999
	US-6,331,480	12/01/2001	Tsai, , et al.	02/18/1999
	US-6,420,441	07/16/2002	Allen, C. S., et al.	12/10/1999
	US-6,438,720	08/20/2002	Boutaud, F., et al.	06/07/1995
	US-6,484,065	11/19/2002	Yu, P. K.	10/05/1998
	US-6,624,454	09/23/2003	Adachi, K.	05/07/1998
	US-6,628,355	09/30/2003	Takahara, H	10/27/2000
	US-6,670,257	12/30/2003	Barlocchi, G., et al.	04/07/2000
	US-6,756,653	06/29/2004	Farrar, P. A.	06/27/2002
	US-6,781,192	08/24/2004	Farrar, P. A.	06/27/2002
	US-6,836,291	12/28/2004	Nakamura, S., et al.	04/01/1999
	US-6,890,847	05/10/2005	Farrar, P. A.	02/22/2000
	US-6,953,983	10/11/2005	Farrar, P. A.	12/08/2003
	US-7,067,421	06/27/2006	Ahn, K. Y., et al.	11/24/2003

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"ACCUSPIN T-18 Flowable Spin-On Polymer (SOP)", <u>AlliedSignal - Advanced Microelectronic Materials</u> , Sunnyvale, CA, (7/98), pp. 1-2	
		AMERICAN SOCIETY FOR METALS, "Metals Handbook", <u>Properties and Selection: Nonferrous Alloys and Pure Metals</u> , Ninth Edition, Volume 2, Metals Park, Ohio :, (1979), 796-797	
		BHUSARI, DHANANJAY, "Fabrication of Air-Channel Structures for Microfluidic, Microelectromechanical, and Microelectronic Applications", <u>Journal of Microelectromechanical Systems</u> , 10 (3), (Sept. 2001), 400-408	

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Sheet 3 of 3

Attorney Docket No: 303.603US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		CONTI, R., "Processing Methods to Fill High Aspect Ratio Gaps Without Premature Constriction", <u>1999 Proceedings of Dielectrics for Multilevel Interconnection Conference</u> , (1999), pp. 201-209	
		CRAIG, J. D., "Polyimide Coatings", <u>Packaging, Electronic Materials Handbook, Vol. 1</u> , ASM International Handbook Committee (eds.), ASM International, Materials Park, OH, (1989), 767-772	
		GROVE, N. R., et al., "Properties and processing of AVATRELTM as a high performance dielectric", <u>6th International Conference on Multichip Modules</u> , (1997), 224-227	
		LABADIE, J., "Nanopore Foams of High Temperature Polymers", <u>IEEE Transactions on Components, Hybrids, and Manufacturing Technology</u> , 15, (Dec., 1992), 925-930	
		REMENAR, J., "Templating Nanopores into Poly (Methylsilsesquioxane): New-Low Dielectric Coatings Suitable for Microelectronic Applications", <u>Materials Research Society Symposium Proceedings</u> , 511, (1998), pp. 69-74	

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